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Amendments to the Claims

Claim 1 (Original): Hybrid maize seed designated 34N16, representative seed of said hybrid 34N16 having been deposited under ATCC accession number _____.

Claim 2 (Original): A maize plant, or its parts, produced by the seed of claim 1.

Claim 3 (Original): Pollen of the plant of claim 2.

Claim 4 (Original): An ovule of the plant of claim 2.

D² Claim 5 (Currently amended): A tissue culture of regenerable cells or protoplasts of said cells of a hybrid maize plant 34N16, representative seed of said hybrid maize plant 34N16 having been deposited under ATCC accession number _____, wherein the tissue culture regenerates plants capable of expressing all the morphological and physiological characteristics of said hybrid maize plant 34N16.

Claim 6 (Previously amended): The tissue culture according to claim 5, the cells or protoplasts of said cells having been isolated from a tissue selected from the group consisting of leaves, pollen, embryos, roots, root tips, anthers, silks, flowers, kernels, ears, cobs, husks, and stalks.

Claim 7 (Original): A maize plant, or its parts, regenerated from the tissue culture of claim 5 and capable of expressing all the morphological and physiological characteristics of hybrid maize plant 34N16, representative seed having been deposited under ATCC accession number _____.

D³ Claim 8 (Currently amended): The maize plant of claim 2 wherein said maize plant further comprises ~~a genetic factor conferring~~ an introgressed cytoplasmic gene that confers male sterility.

Claims 9-11 (Canceled)

D 4
Claim 12 (Currently amended): A maize plant according to claim 2, wherein the genetic material of said plant further comprises one or more mutant genes or transgenes which have been introgressed therein, said mutant genes or transgenes selected from the group consisting of: a plant disease resistance gene, an insect resistance gene, a herbicide resistance gene, and a male sterility gene.

Claims 13-19 (Canceled)

Claim 20 (Original): A maize plant, or its parts, having all the morphological and physiological characteristics of the plant of claim 2.

D 5
Claim 21 (Currently amended): The maize plant of claim 20 wherein said maize plant further comprises ~~a genetic factor conferring~~ an introgressed cytoplasmic gene that confers male sterility.

Claims 22-24 (Canceled)

D 6
Claim 25 (Currently amended): A maize plant according to claim 20, wherein the genetic material of said plant further comprises one or more mutant genes or transgenes which have been introgressed therein, said mutant genes or transgenes selected from the group consisting of: a plant disease resistance gene, an insect resistance gene, a herbicide resistance gene, and a male sterility gene.

Claims 26-32 (Canceled)

D 7
Claim 33 (Currently amended): A method of making a hybrid maize plant designated 34N16 comprising:
crossing an inbred maize plant GE568102, deposited as _____ with a second inbred maize plant GE534776, deposited as _____; and
developing from the cross a said hybrid maize plant representative seed of which having been deposited under ATCC Accession Number _____.

Claims 34-40 (Canceled)

D 8
Claim 41 (Currently amended): A method of producing a male sterile maize plant comprising transforming the maize plant of claim 2 with a ~~genetic factor~~ transgene conferring male sterility.

Claim 42 (Currently amended): ~~The method of claim 41 wherein a~~ A male sterile maize plant is produced by the method of claim 41.

Claim 43 (New): A method of making an F1 hybrid maize plant comprising:

- 1) introgressing a mutant gene or a transgene that encodes a product that confers insect resistance into at least one of inbred maize parent plants GE568102 and GE534776, representative samples of which have been deposited as _____ and _____ respectively, and
- 2) crossing said inbred maize parent plants to produce said F1 hybrid maize plant.

D 9
Claim 44 (New): The maize plant produced by the method of claim 43 wherein said mutant gene or transgene is an insect resistance gene encoding a *Bacillus thuringiensis* polypeptide.

Claim 45 (New): The maize plant produced by the method of claim 43.

Claim 46 (New): A method of making an F1 hybrid maize plant comprising:

- 1) introgressing a mutant gene or a transgene that encodes a product that confers herbicide resistance into at least one of inbred maize parent plants GE568102 and GE534776, representative samples of which have been deposited as _____ and _____ respectively, and
- 2) crossing said inbred maize parent plants to produce said F1 hybrid maize plant.

Claim 47 (New): The maize plant produced by the method of claim 46 wherein said mutant gene or transgene is an herbicide resistance transgene selected from the group consisting of: a transgene conferring glyphosate resistance, a transgene conferring glufosinate resistance, a mutant gene or transgene conferring imidazolinone resistance and a mutant gene or transgene conferring sulfonylurea resistance.

Claim 48 (New): The maize plant produced by the method of claim 46.

Claim 49 (New): A method of making an F1 hybrid maize plant comprising:

- 1) introgressing a mutant gene or a transgene that encodes a product that confers disease resistance into at least one of inbred maize parent plants GE568102 and GE534776, representative samples of which have been deposited as _____ and _____ respectively, and
- 2) crossing said inbred maize parent plants to produce said F1 hybrid maize plant.

Claim 50 (New): The maize plant produced by the method of claim 49.

Claim 51 (New): A method of making an F1 hybrid maize plant comprising:

- 1) introgressing a gene that confers male sterility into at least one of inbred maize parent plants GE568102 and GE534776, representative samples of which have been deposited as _____ and _____ respectively, and
- 2) crossing said inbred maize parent plants to produce said F1 hybrid maize plant.

Claim 52 (New): The method of claim 51 wherein said F1 hybrid maize plant further comprises said gene that confers cytoplasmic male sterility.

Claim 53 (New): The maize plant produced by the method of claim 51.

Claim 54 (New): A method of making an F1 hybrid maize plant comprising:

- 1) introgressing a gene that encodes a product that confers imidazolinone resistance into at least one of inbred maize parent plants GE568102 and GE534776, representative samples of which have been deposited as _____ and _____ respectively, and
- 2) crossing said inbred maize parent plants to produce said F1 hybrid maize plant.

Claim 55 (New): The maize plant produced by the method of claim 54.

Claim 56 (New): A method of making an F1 hybrid maize plant comprising:

1) introgressing a mutant gene or a transgene that encodes a product that modifies fatty acid metabolism, that decreases phytate content, or that modifies starch metabolism into at least one of inbred maize parent plants GE568102 and GE534776, representative samples of which have been deposited as _____ and _____ respectively, and

2) crossing said inbred maize parent plants to produce said F1 hybrid maize plant.

Claim 57 (New): The maize plant produced by the method of claim 55.

Claim 58 (New): The maize plant produced by the method of claim 43 wherein said maize plant exhibits no statistically significant variation from 34N16, other than variation caused by the addition of said mutant gene or transgene, and wherein significance is determined at a 5% significance level when grown in the same environmental conditions as 34N16.